Monitoring Data Record

Project Title: R-1030AB (Sites 2 and 3) COE Action ID: 199202353

Stream Name: Smith Mill Run DWQ Numbers: 990413
City, County and other Location Information:
Date Construction Completed: January 2005 Monitoring Year: (2) of 1
Ecoregion: 8 digit HUC unit: 03020201
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 731' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and B. Poole Date: 8/8/06
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address:
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: The permittee will visually monitor the vegetative plantings on the mitigation streambanks to access and insure complete stabilization of the mitigation stream segments. This monitoring will include adequate visual monitoring of planted vegetation for a minimum of one year after planting, and appropriate remedial actions (e.g., replanting, streambank grading, ect.)

Section 1. PHOTO REFERENCE SITES

Total number of reference photo locations at this site: 4 reference points, 2 photos at each

Dates reference photos have been taken at this site: 9/21/05, 8/6/06

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Smith Mill Run was replanted in January 2006 with black willow and silky dogwood livestakes and green ash, river birch, and swamp chestnut oak bareroot seedlings. Hardwood vegetation noted on the streambank and in the floodplain consisted of silky dogwood, black willow, green ash, river birch, swamp chestnut oak, tulip poplar, cherrybark oak, red maple, and mockernut hickory. Other vegetation included fennel, pokeberry, goldenrod, briars, cattail, *Sagittaria* sp., woolgrass, *Juncus* sp., ragweed, jewelweed, cut grass, tear-thumb, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The channel is stabilized throughout the length of the stream relocation. There was evidence that a bankfull event has occurred on site since last year's monitoring visit. Beaver activity was noted on the outlet end of the box culvert going off DOT's right-of-way. NCDOT has completed it's permit requirement for stream monitoring and requests to close out the Smith Mill Run Mitigation Site.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

Smith Mill Run

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

August 2006

Smith Mill Run

Photo 7

August 2006